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"To enrich lives through effective and caring service"

March 5, 2013

To: Each Supervisor

From: Tom Tindall
Director

Subject: **ANNUAL CLEAN FUELS REPORT**

The Board of Supervisor's "Clean Fuels" policy was adopted on January 10, 1995. The policy requires that by March 1 of each year, departments report on the composition of their fleet and their progress toward acquiring clean fuel vehicles.

The attachment provides the Internal Services Department's (ISD's) report for calendar year 2012, which includes data on all of the County departments and vehicles for which ISD provides automotive services. County departments that maintain their own vehicles (Sheriff, Public Works, and Fire) will report separately.

The ISD-maintained motor vehicle fleet includes 3,770 vehicles, of which 720 (19%) are alternative fuel vehicles (AFVs). Passenger vehicles in the ISD-maintained fleet total 1,070, of which 496 (46%) are AFVs, and include hybrid, electric, natural gas, bi-fuel, flex-fuel and propane. Also reflected is information captured to date on certified low emission vehicles (LEV's), ultra-low emission vehicles (ULEV's), and super ultra-low emission vehicles (SULEV's) as defined by the California Air Resources Board (CARB).

Hybrid Vehicles

ISD continued to assist County departments and employees with the acquisition of AFVs in support of the County's Clean Fuels policy, including:

- The acquisition of 40 hybrid sedans on behalf of County departments for calendar year 2012.
- The Vehicle Purchasing Services Program where County employees used this program to purchase 11 hybrid vehicles during 2012, bringing the total number of hybrid vehicles purchased by County employees under this program to 359.

Your Board amended the Clean Fuels Policy in December 2005, which effectively made the hybrid or other alternative fueled vehicles as the standard for County operations effective July 2006. Since that time, we have reported the environmental impact in terms of emissions avoidance. The results for calendar year 2012 are as follows:

Items Avoided	Results from Hybrids	Results from CNG and LPG*	Combined Results
Gallons of Petroleum Fuel Avoided	148,755	373,729	522,484
Lbs of CO2 Avoided	2,885,846	3,646,051	6,531,897

*CNG – Compressed Natural Gas; LPG- Liquid Propane Gas

Regulations for Diesel Vehicles/Equipment

ISD maintains 107 diesel vehicles impacted by the CARB Public Fleet rule (January 5, 2007, regulations) for the following County departments: Health Services, Parks & Recreation, Beaches & Harbors, Probation, Registrar-Recorder, Agricultural Commissioner, CEO, Coroner, Public Health, Museum of Natural History, Public Library, and ISD.

ISD has worked closely with these departments to successfully meet all CARB compliance requirements for affected ISD-maintained fleet vehicles within the required deadline for calendar year 2012.

Alternate Fuel Vehicle Initiatives

In support of the California greenhouse gas reduction target to achieve 1990 emission levels by 2020, ISD continues to explore AFVs, pilot new technologies, educate County departments, and recommend/amend the Clean Fuels Program Policy or Vehicle Policy as necessary. In this regard, County initiatives in 2012 included:

- ISD has continued as an active partner in the Southern California Regional Plug-In Electric Vehicle Plan (SoCal EV) group, which is a regional collaborative among 23 local and regional partner government agencies, utilities, and universities in Southern California. Group members are actively engaged in supporting and building the necessary infrastructure for the wider commercial availability of electric vehicles.
 - In 2012, ISD completed the electric vehicle charging unit and support services solicitation and issued a multi-tiered purchasing master agreement for use by the County and other agencies which includes a full range of approximately 12 electric vehicle charging devices from different manufacturers. This will allow agencies the flexibility to make choices to match their needs.
 - With completion of the electric charging device agreement in 2012, the South Coast Air Quality Management District (SCAQMD) determined grant shares for agencies participating in the 2010 California Energy Commission grant to SoCal EV of \$840,750. The County's allocated share was determined to be \$120,000.
- ISD collaborated with County departments to identify 36 County facilities to install 93 electric vehicle charging devices. The request for Board approval to execute grant agreements with SCAQMD and Mobile Source Air Pollution Reduction Review Committee will be before your Board on March 5, 2013. Installation of the electric vehicle charging devices are targeted to be completed by March 2014.
- In February 2013, ISD attended a State of California Plug-In Electric Vehicle Financing Workshop in San Francisco which discussed ideas for expanding and funding Electric vehicles and supporting infrastructure throughout the State.
- ISD set-up two additional short-term demonstration tests of new all-electric vehicles in County operations. Testing was completed in late March 2012 and June 2012 with BYD and Coda, respectively. Overall feedback was generally positive regarding size and drivability, but concerns remain about limited range and cost effectiveness.

ISD also continued to assist other departments with fleet and transportation initiatives, funded by grants and other sources. These efforts included assisting the Sheriff's Department in writing and negotiating two Carl Moyer Program grants from the South

Coast Air Quality Management District, totally \$7 million, to replace 37 (45%) of Sheriff's 82 Prisoner Transportation Buses. The combined emissions from all 37 new buses will produce less particulate matter (soot) and less nitrous oxide emissions than just one of the old buses being retired. The first 16 buses have been delivered. Nine additional buses are budgeted for Fiscal Year 2013-14. ISD is assisting the Sheriff's Department with project management and in fulfilling the technical and reporting terms and conditions of the grant.

ISD Fuel Facilities - Regulation Compliance

ISD operates three fuel facilities, which support daily fueling for all County vehicles and County emergency preparedness. Fuel facilities are regulated by the CARB, the California Water Board, and the SCAQMD to ensure fuel sites meet equipment standards and control emissions.

ISD fuel facilities are in full compliance with all regulations including the SCAQMD's Enhanced Vapor Recovery (EVR) Phase I (fuel storage) and Phase II (refueling vehicles) which was required for all gasoline dispensing facilities by April 1, 2009. The Mall Garage fuel site was completed in June 2012 following SCAQMD's identification and approval of the required equipment for liquid condensate traps with underground dispensing.

ISD Fuel Management and Controls

ISD implemented an automated fuel management and control system (Fuel Focus) for its three (3) fuel sites in August of 2010. The objectives of this fuel system are to reduce fuel losses and improve interdepartmental fuel availability through more accurate dispensing and inventory records, shared vehicle information, and standardization of fueling facilities.

By March 2012, 27 of the Sheriff department's 29 fuel sites were upgraded to the Fuel Focus system and the final two (2) sites are expected to be completed by June 2013. In October 2012, Beaches & Harbors was awarded a PIF loan from the Quality and Productivity Commission for installation of Fuel Focus at its seven (7) sites. Installation is expected to be completed by the end of 2013.

Presently, both Public Works and the Parks & Recreation Departments have expressed interest in joining the system and are pursuing hands-on testing.

Fleet Reviews

ISD conducted Vehicle Fleet Review meetings with customer departments throughout 2012, which include a review of the departments' vehicle utilization, preventative maintenance standards and status, specialized vehicle service needs (as applicable), cost review, M4 Fleet system information availability and uses, and recommendations for consideration. For example, low usage vehicles (under 5,000 miles annually), excess usage (over 20,000 miles annually), and vehicle replacement considerations including right sizing the vehicle fleet are examined.

ISD has reduced its vehicle fleet by 236 vehicles since January 2010. Some vehicles (93 as of January 2013) have been transferred to other County departments to replace very old or high mileage units. Overall, County vehicle emissions and fuel economy are improved with these transfers/replacements.

Additionally, ISD management and staff continue to work with County departments and other government agencies on environmental vehicle initiatives, County fuel systems and infrastructure, and attend workshops to gain more applied knowledge on greening our fleet.

If you have any questions, please contact me at (323) 267-2101, or your staff may contact Joe Sandoval of ISD's Purchasing and Contract Services at (323) 267-2109.

TT:JS:MN:lc

Attachment

c: ISD Board Deputies
Chief Executive Office
Department Heads
Administrative Deputies
Vehicle Coordinators

**Fuel Type-Emiss Cert Summary
2012**

Count by Fuel Type		FUEL TYPE		ALTERNATE FUEL VEHICLES (AFV)							Grand Total	Total AFV	AFV as % of Total	Emission Certifications
DEPT NAME	GAS	DIESEL	CNG	CNG/ GAS	ELECTRIC	ETHANOL/ GAS	HYBRID ELECTRIC/ GAS	METHANOL/ GAS	PROPANE	PROPANE/ GAS				
Agricultural Commissioner/Weights & Measures	309	13				4	3				329	7	2.13%	178
Alternate Public Defender	3						1				4	1	25.00%	2
Animal Care & Control	55		1			29	4				89	34	38.20%	72
Auditor-Controller	4						1				5	1	20.00%	3
Beaches & Harbors	109	9				7	2				127	9	7.09%	49
Board of Supervisors	38					2	40				80	42	52.50%	63
Chief Executive Office	6	1				3	4				14	7	50.00%	12
Child Support Services	8										8	-	0.00%	6
Community & Senior Services	40					5	5				50	10	20.00%	38
Department of Children & Family Services	75					5					80	5	6.25%	31
Department of Health Services	282	45	6			7	4				344	17	4.94%	96
Department of Human Resources	1										1	-	0.00%	-
Department of Mental Health	145					13	111				269	124	46.10%	162
Department of Parks & Recreation	535	13	1	2		8	20		2		581	33	5.68%	336
Department of Public Health	88	2	1			11	38	1			141	51	36.17%	88
Department of Public Social Services	20						1				21	1	4.76%	15
Internal Services Department	525	11	11		2	77	32	1		1	660	124	18.79%	539
Military & Veterans Affairs	1					1					2	1	50.00%	1
Museum of Natural History	13	2									15	-	0.00%	2
Office of the Assessor	7						1				8	1	12.50%	5
Office of the Coroner	31	3				15	1				50	16	32.00%	26
Office of the District Attorney	247					58	5				310	63	20.32%	238
Office of the Public Defender	6										6	-	0.00%	3
Probation Department	292	3				99	56				450	155	34.44%	279
Public Library	53	2	2	1		4	1				63	8	12.70%	32
Regional Planning	1							3			4	3	75.00%	2
Registrar Recorder/County Clerk	42	3					7				52	7	13.46%	31
Treasurer/Tax Collector	7										7	-	0.00%	2
Grand Total	2,943	107	22	3	2	348	340	2	2	1	3,770	720	19.10%	2,311

Source: M4 database as of 2-1-13